

RECEIVED  
CENTRAL FAX CENTER  
SEP 07 2004

Law Offices of  
**SENNIGER POWERS**

ONE METROPOLITAN SQUARE, 16TH FLOOR  
ST. LOUIS, MISSOURI 63102

Telephone (314) 231-5400  
Facsimile (314) 231-4342

FACSIMILE TRANSMITTAL COVER SHEET

DATE: 9-7-04 ATTORNEY DOCKET NUMBER: SMX 3093.3  
PTO FACSIMILE NUMBER: 703-872-9306

PLEASE DELIVER THIS FACSIMILE TO: Examiner Mary Ceperley  
THIS FACSIMILE IS BEING SENT BY: Derick E. Allen, Reg. No. 43,468  
NUMBER OF PAGES: 26 INCLUDING COVER SHEET

TIME SENT: 10:50 OPERATOR'S NAME Sandra Dean

Applicant's Name: Gerrit Klaerner  
Serial No. (Confirmation No.): 09/911,683 (Confirmation No. 4375)

Filing Date: 07-24-01 Art Unit: 1641

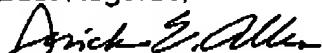
Application Title: POLYMER BRUSHES FOR IMMOBILIZING MOLECULES TO A SURFACE AND HAVE WATER-SOLUBLE OR WATER-DISPERSIBLE SEGMENTS THEREIN AND PROBES BONDED THERETO

Comments:

Pursuant to the phone conference the undersigned had with Examiner Ceperley this morning, attached please find the following: (i) pages that were attached to the Office Action of May 19, 2003, which are copies of the Information Disclosure Statement Applicants submitted on October 25, 2001 and which have not been signed/dated and/or which include references listed thereon that have not been initialed; and, (ii) copies of references 91, 133, 135 and 158 (which appear to be the only references not initialed on these pages, or any of the pages submitted with the Statement of October 25, 2001).

The undersigned would like to thank Examiner Ceperley for the time spent discussing this matter. The Examiner's indication that she would, to the extent necessary, review these references as soon as possible, in view of the November 10, 2004 deadline for payment of the issue fee for this application, is greatly appreciated.

Best Regards,



Derick E. Allen  
Reg. No. 43,468

IF YOU DO NOT RECEIVE ALL PAGES CLEARLY, CALL BACK AS SOON AS POSSIBLE. CONFIRMING NUMBER IS (314) 231-5400.

PTO/SB/08A		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT  (use as many sheets as necessary)		Application Number	09/911,683
		Filing Date	July 24, 2001
		Confirmation Number	4375
		First Named Inventor	Gerrit Klaerner
		Group Art Unit	1641
		Examiner Name	Gary W. Counts
Sheet	10	of	Attorney Docket No.

RECEIVED  
OCT 25 2001  
U.S. PATENT & TRADEMARK OFFICE

Sheet 10 of 10 Attorney Docket No. SMX 3093.3 (99-100D1)

M&C	127	OTSU "Iniferter Concept and Living Radical Polymerization" Journal of Polymer Science, Part A: Polymer Science, Vol. 38 (2000) pp. 2121-2136.
M&C	128	OTSU et al. "Solid-Phase Block Copolymer Synthesis by the Iniferter Technique" Vol. 19, No. 7 (1988) pp. 2087-2089.
M&C	129	PENG et al. "Polymer Brushes with Liquid Crystalline Side Chains" Macromolecules, Vol. 32, No. 20 (1999) pp. 6759-6766.
M&C	130	PETRO et al. "Polymers Immobilized on Silica Gels as Stationary Phases for Liquid Chromatography" Chromatographia, Vol. 37, No. 9-10 (11/1993) pp. 549-561.
M&C	131	PRUCKER "Grafting of Polymers to Microparticulate Silica by Using Immobilized Azo Initiators" Chemical Abstracts, Vol. 123, No. 18 (1995) Abstract No. 123: 229210z.
M&C	132	PRUCKER et al. "Mechanism of Radical Chain Polymerizations Initiated by Azo Compounds Covalently Bound to the Surface of Spherical Particles" Macromolecules, Vol. 31, No. 3 (1998) pp. 602-613.
M&C	133	PRUCKER "Synthesis of Poly(styrene) Monolayers Attached to High Surface Area Silica Gels Through Self-Assembled Monolayers of Azo Initiators" Macromolecules, Vol. 31, No. 3 (1998) pp. 592-601.
M&C	134	RUHE "Polymers Grafted From Solid Surfaces" Macromol. Symp., Vol. 126 (1997) pp. 215-222.
	135	SARIN et al. "Inhibition of Acquired Immunodeficiency Syndrome Virus by Oligodeoxynucleoside Methylphosphonates" Proceedings of the National Academy of Sciences USA, Vol. 85, No. 20 (10/1988) pp. 7448-7451.
M&C	136	SEERY et al. "Designing Polymer Surfaces on Gold and Glass Using Surface Initiated Polymerizations" 214th ACS National Meeting, Las Vegas, NV (1997) Abstract 044.
M&C	137	SEERY et al. "Direct Synthesis of Polymer Brushes" Polymer Preprints, Vol. 40, No. 2 (1999) pp. 148-149.
M&C	138	SEIDEL et al. "Individual Polymer Paths and End-Point Stretching in Polymer Brushes" Macromolecules, Vol. 33, No. 2 (2000) pp. 634-640.

Examiner Signature	Date Considered
--------------------	-----------------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, D.C. 20231.

PTO/SB/08A			Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT			Application Number	09/911,683
(use as many sheets as necessary)			Filing Date	July 24, 2001
			Confirmation Number	4375
			First Named Inventor	Gerrit Klaerner
			Group Art Unit	1641
			Examiner Name	Gary W. Counts Caperley
Sheet	6	of	Attorney Docket No.	SMX 3093.3 (99-100D1)

RECEIVER

*O P E  
JUL 25 2001  
PATENT & TRADEMARK OFFICE*

<i>MWC</i>	79	CHEUNG et al. "Making and Reading Microarrays" Nature Genetics Supplement, Vol. 21 (1/1999) pp. 15-19.
<i>MWC</i>	80	COLE et al. "The EBV-Hybridoma Technique and Its Application to Human Lung Cancer" Monoclonal Antibodies and Cancer Therapy, Alan R. Liss, Inc. (1985) pp. 77-96.
<i>MWC</i>	81	COTE et al. "Generation of Human Monoclonal Antibodies Reactive with Cellular Antigens" Proceedings of the National Academy of Sciences" Vol. 80, No. 7 (4/1983) pp. 2026-2030.
<i>MWC</i>	82	de BOER et al. "Living" Free Radical Photopolymerization Initiated from Surface-Grafted Initiator Monolayers" Macromolecules, Vol. 33, No. 2 (2000) pp. 349-356.
<i>MWC</i>	83	DHAR et al. "Modification of Silica Surfaces Using Surface Initiated Polymerization" Abstracts of Papers, Part 2, 215th ACS National Meeting, Dallas, TX (1998) Abstract No. 147.
<i>MWC</i>	84	FISCHER "The Persistent Radical Effect In "Living" Radical Polymerization" Macromolecules, Vol. 30, No. 19 (1997) pp. 5666-5672.
<i>MWC</i>	85	GLAZER "Phycobilisomes: Structure and Dynamics" Annual Review of Microbiology, Vol. 36 (1982) pp. 173-198.
<i>MWC</i>	86	GRABAREK et al. "Zero-Length Crosslinking Procedure with the Use of Active Esters" Analytical Biochemistry, Vol. 185 (1990) pp. 131-135.
<i>MWC</i>	87	HARRISON et al. "Reducing Substrate Pinning of Block Copolymer Microdomains with a Buffer Layer of Polymer Brushes" Macromolecules, Vol. 33, No. 3 (2000) pp. 857-865.
<i>MWC</i>	88	HAWKER et al. "Accurate Control of Chain Ends by a Novel "Living" Free-Radical Polymerization Process" Macromolecules, Vol. 28, No. 8 (1995) pp. 2993-2995.
<i>MWC</i>	89	HAWKER "Architectural Control in "Living" Free Radical Polymerizations: Preparation of Star and Graft Polymers" Angew. Chem. Int. Ed. Engl., Vol. 34, No. 13/14 (1995) pp. 1456-1459.
<i>MWC</i>	90	HAWKER et al. "Initiating Systems for Nitroxide-Mediated "Living" Free Radical Polymerizations: Synthesis and Evaluation" Macromolecules, Vol. 29, No. 16 (1996) pp. 5245-5254.
<i>MWC</i>	91	HAWKER et al. "Manipulation of Surface Properties Using Novel Grafted Copolymer Brushes and Surface Initiated Polymerization" Polymer Preprints, Vol. 40, No. 2 (8/1999) p. 101.

Examiner Signature	<i>Mary E. Caperley</i>	Date Considered	05/15/03
--------------------	-------------------------	-----------------	----------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kind of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, D.C. 20231.

PTO/SB/08A		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT		Application Number	09/911,683
(use as many sheets as necessary)		Filing Date	July 24, 2001
		Confirmation Number	4375
		First Named Inventor	Gerrit Klaerne
		Group Art Unit	1641
		Examiner Name	Gary W. Counts Caporaso
Sheet	12	of	12
		Attorney Docket No.	SMX 3093.3 (99-100D1)

MEU	151	TSUBOKAWA et al. "Surface Modification of Carbon Microbead by the Grafting of Polymers" J.M.S. - Pure Appl. Chem., Vol. A32, No. 3 (1995) pp. 525-535.
MEU	152	VATANSEVER et al. "Modification of Glass Surfaces by Using Tethered Romp Catalysts" 215th ACS National Meeting, Dallas, TX (1998) Abstract 146.
MEU	153	WANG et al. "Facile Synthesis of New Unimolecular Initiators for Living Radical Polymerizations" Macromolecules, Vol. 31, No. 19 (1998) pp. 6727-6729.
MEU	154	WECK et al. "Ring-Opening Metathesis Polymerization from Surfaces" Journal of the American Chemical Society, Vol. 121, No. 16 (1999) pp. 4088-4089.
MEU	155	WEISENHORN et al. "Imaging Single-Stranded DNA, Antigen-Antibody Reaction and Polymerized Langmuir-Blodgett Films with an Atomic Force Microscope" Scanning Microscopy, Vol. 4, No. 3 (1990) pp. 511-516.
MEU	156	WILLIAMS et al. "A New Mechanism Involving Cyclic Tautomers for the Reaction with Nucleophiles of the Water-Soluble Peptide Coupling Reagent 1-Ethyl-3-(3-(dimethylamino)propyl)carbodiimide (EDC)" Journal of the American Chemical Society, Vol. 103, No. 24 (1981) pp. 7090-7095.
MEU	157	XIA et al. "Soft Lithography" Angew. Chem. Int. Ed., Vol. 37 (1998) pp. 550-575.
	158	YAMAMOTO et al. "Preparation of Well-Defined Polymer Brushes on Silicon Substrate by the Surface-Initiated ATRP Technique and Their Characterization" Polymer Preprints, Vol. 40, No. 2 (1999) pp. 401-402.
MEU	159	YIN et al. "Grafting of Poly(Acrylic Acid) onto Nonporous Glass Bead Surfaces" Polymers for Advanced Technologies, Vol. 8(1997) pp. 761-766.
MEU	160	International Search Report for PCT/US00/18339 dated September 6, 2000.

Examiner Signature	Mary E. Caporaso	Date Considered	05/15/03
--------------------	------------------	-----------------	----------

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 608. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup>Unique citation designation number. <sup>2</sup>See attached Kinds of U.S. Patent Documents. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

Burden Hour Statement: This form is estimated to take 2.0 hours to complete. Time will vary depending upon the needs of the individual case. Any comments on the amount of time you are required to complete this form should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, Washington, D.C. 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Assistant Commissioner for Patents, Washington, D.C. 20231.